T90EH0" 6Z/9H860

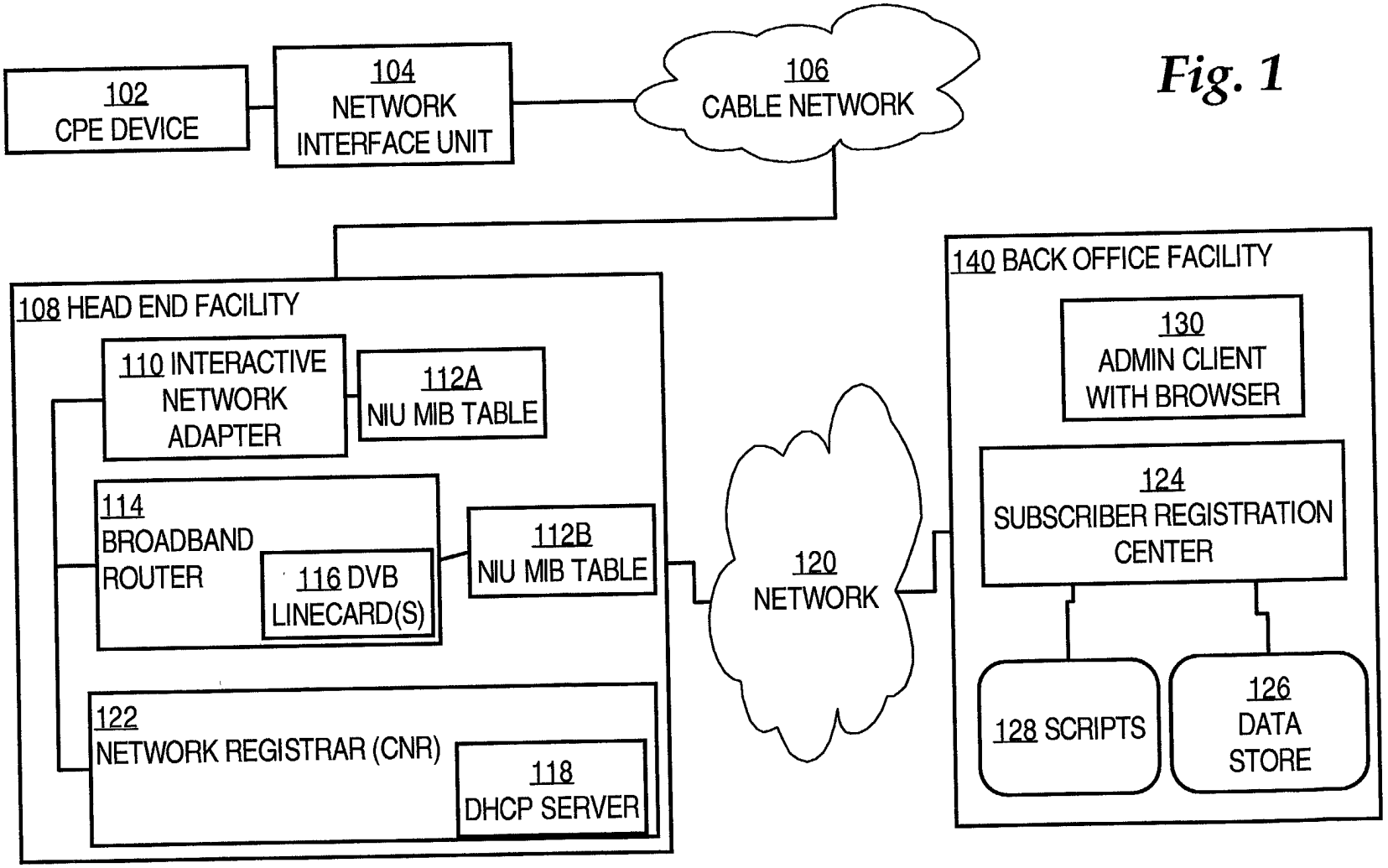


Fig. 1

Fig. 2

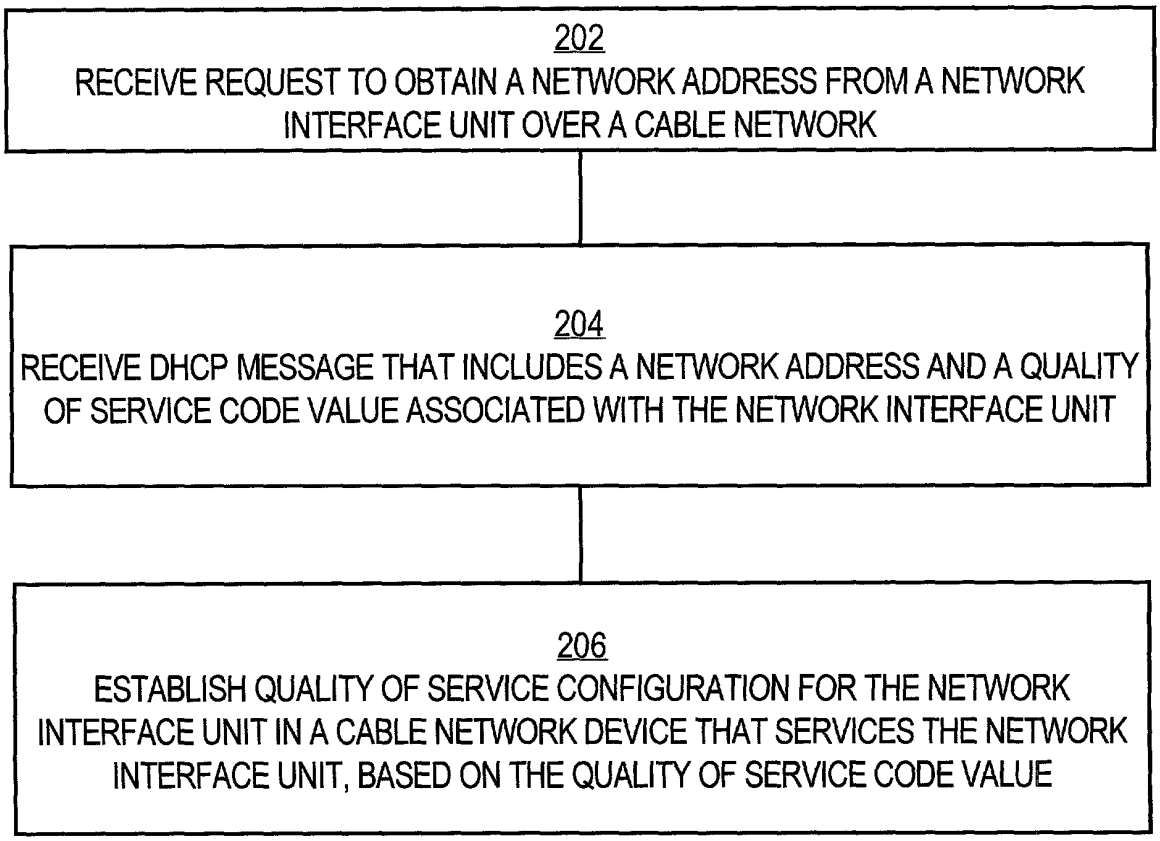

202
RECEIVE REQUEST TO OBTAIN A NETWORK ADDRESS FROM A NETWORK INTERFACE UNIT OVER A CABLE NETWORK
204
RECEIVE DHCP MESSAGE THAT INCLUDES A NETWORK ADDRESS AND A QUALITY OF SERVICE CODE VALUE ASSOCIATED WITH THE NETWORK INTERFACE UNIT
206
ESTABLISH QUALITY OF SERVICE CONFIGURATION FOR THE NETWORK INTERFACE UNIT IN A CABLE NETWORK DEVICE THAT SERVICES THE NETWORK INTERFACE UNIT, BASED ON THE QUALITY OF SERVICE CODE VALUE

Fig. 3A

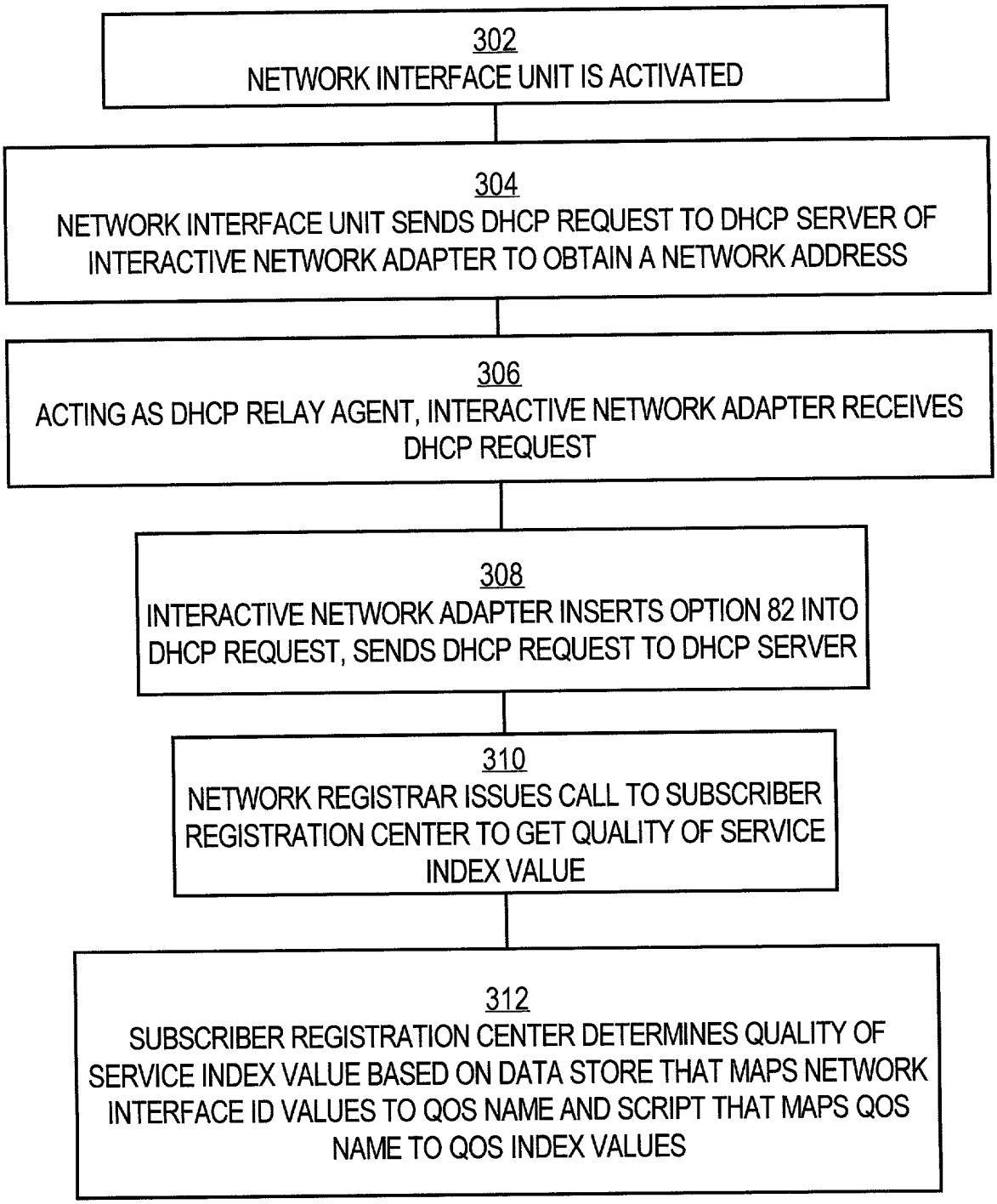

302
NETWORK INTERFACE UNIT IS ACTIVATED
304
NETWORK INTERFACE UNIT SENDS DHCP REQUEST TO DHCP SERVER OF INTERACTIVE NETWORK ADAPTER TO OBTAIN A NETWORK ADDRESS
306
ACTING AS DHCP RELAY AGENT, INTERACTIVE NETWORK ADAPTER RECEIVES DHCP REQUEST
308
INTERACTIVE NETWORK ADAPTER INSERTS OPTION 82 INTO DHCP REQUEST, SENDS DHCP REQUEST TO DHCP SERVER
310
NETWORK REGISTRAR ISSUES CALL TO SUBSCRIBER REGISTRATION CENTER TO GET QUALITY OF SERVICE INDEX VALUE
312
SUBSCRIBER REGISTRATION CENTER DETERMINES QUALITY OF SERVICE INDEX VALUE BASED ON DATA STORE THAT MAPS NETWORK INTERFACE ID VALUES TO QOS NAME AND SCRIPT THAT MAPS QOS NAME TO QOS INDEX VALUES

Fig. 3B

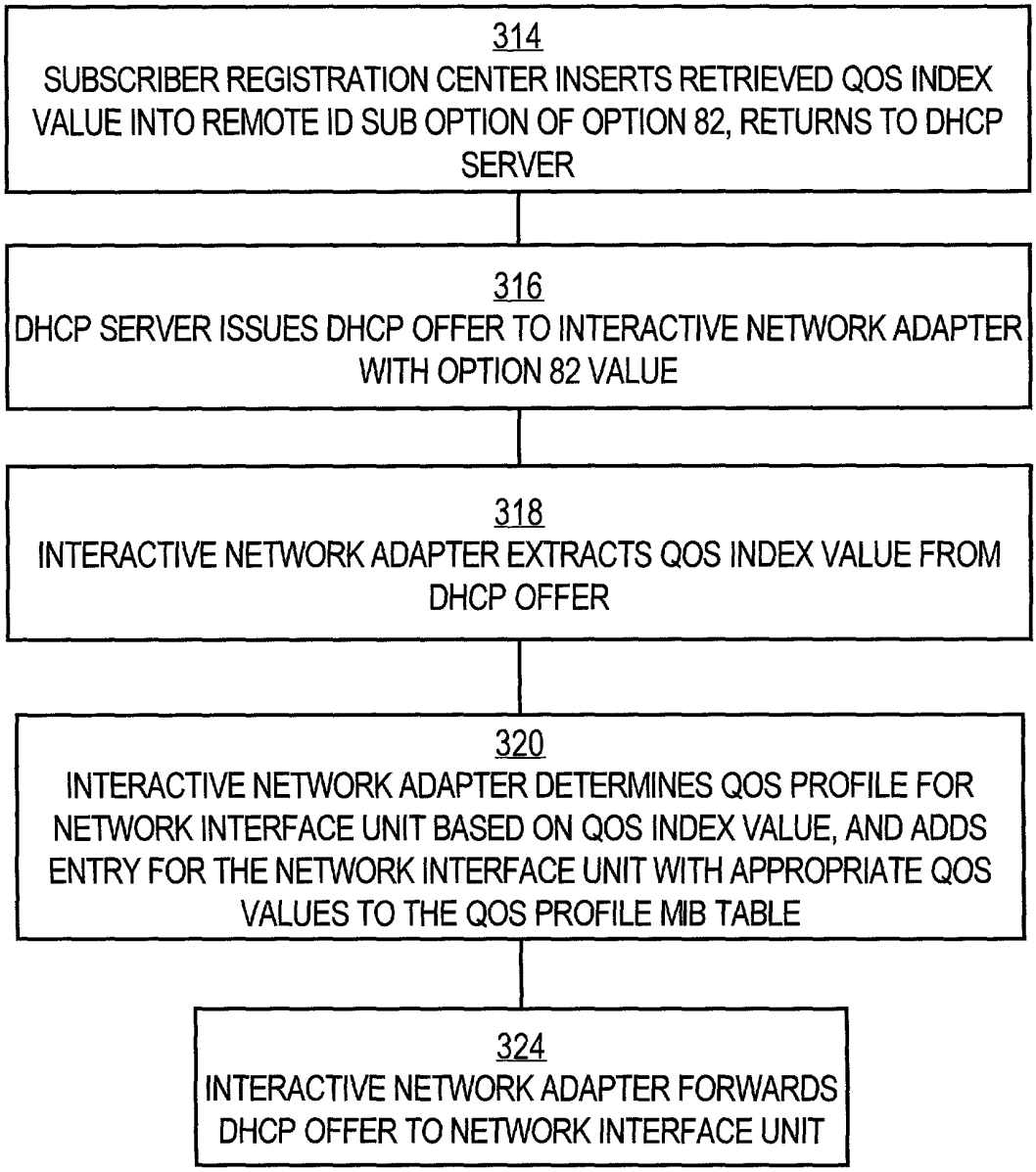
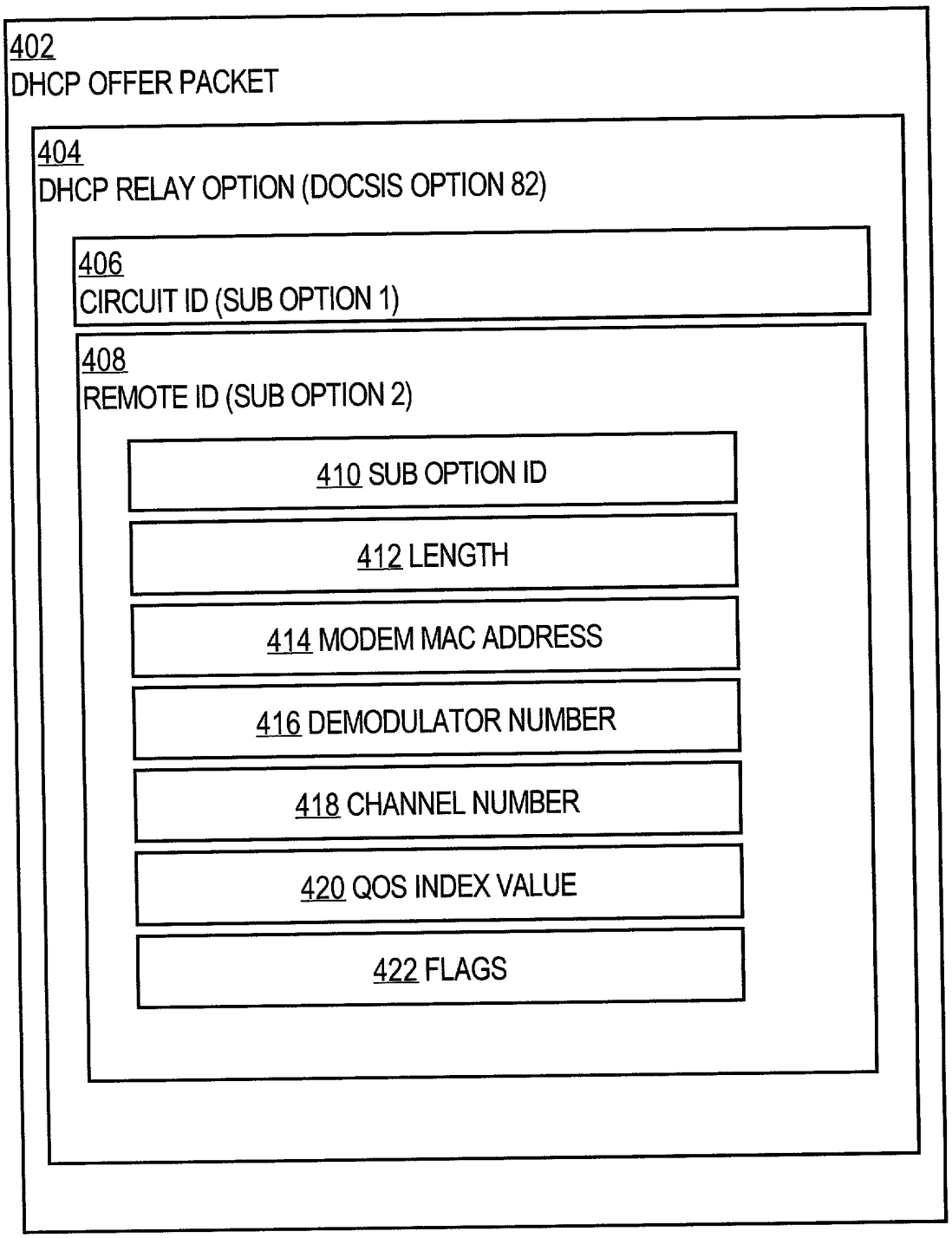

314
SUBSCRIBER REGISTRATION CENTER INSERTS RETRIEVED QOS INDEX VALUE INTO REMOTE ID SUB OPTION OF OPTION 82, RETURNS TO DHCP SERVER
316
DHCP SERVER ISSUES DHCP OFFER TO INTERACTIVE NETWORK ADAPTER WITH OPTION 82 VALUE
318
INTERACTIVE NETWORK ADAPTER EXTRACTS QOS INDEX VALUE FROM DHCP OFFER
320
INTERACTIVE NETWORK ADAPTER DETERMINES QOS PROFILE FOR NETWORK INTERFACE UNIT BASED ON QOS INDEX VALUE, AND ADDS ENTRY FOR THE NETWORK INTERFACE UNIT WITH APPROPRIATE QOS VALUES TO THE QOS PROFILE MIB TABLE
324
INTERACTIVE NETWORK ADAPTER FORWARDS DHCP OFFER TO NETWORK INTERFACE UNIT

Fig. 4


402
DHCP OFFER PACKET
404
DHCP RELAY OPTION (DOCSIS OPTION 82)
406
CIRCUIT ID (SUB OPTION 1)
408
REMOTE ID (SUB OPTION 2)
410 SUB OPTION ID
412 LENGTH
414 MODEM MAC ADDRESS
416 DEMODULATOR NUMBER
418 CHANNEL NUMBER
420 QOS INDEX VALUE
422 FLAGS

FOCHO" 6Z/SH60

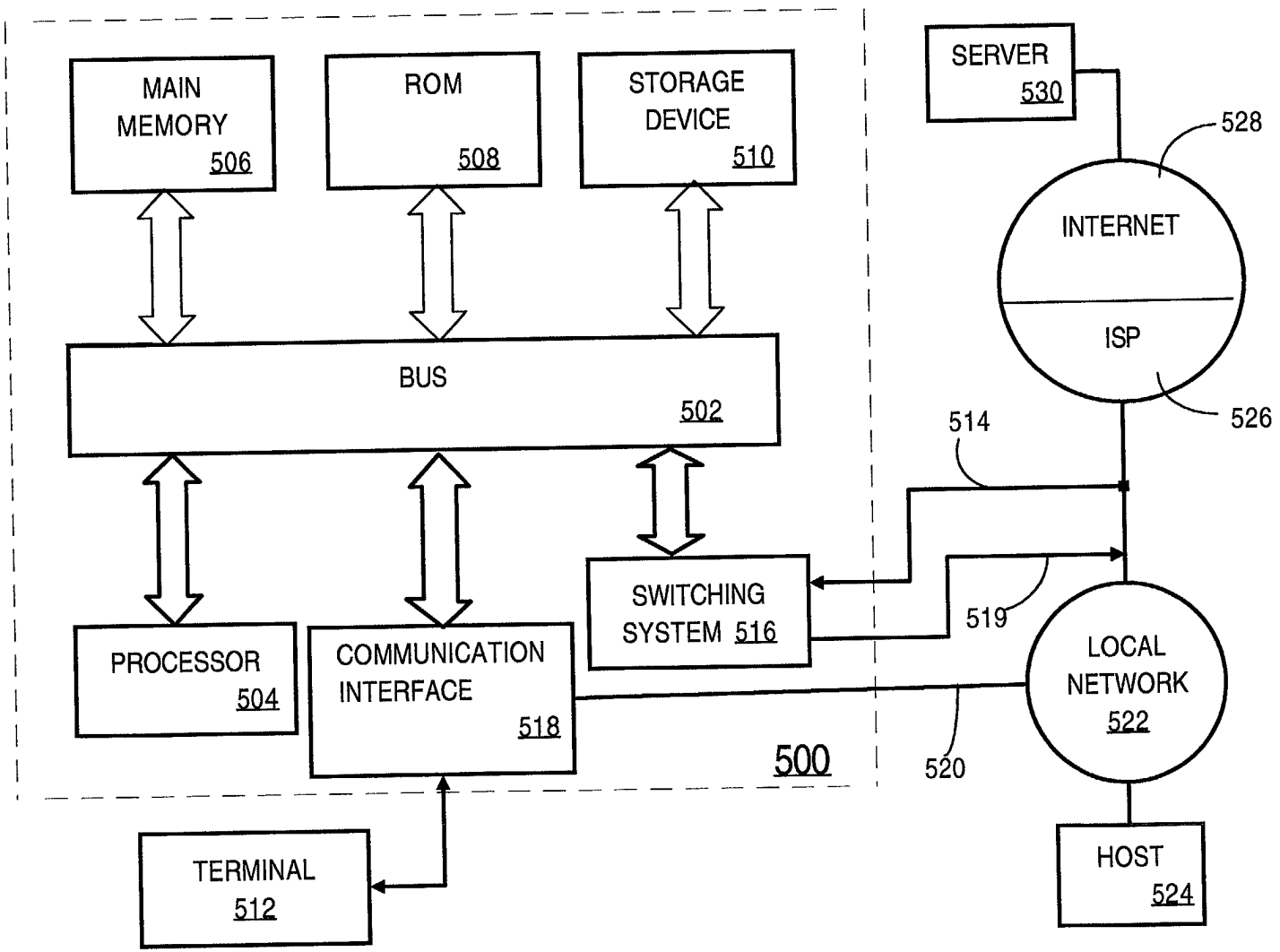



FIG. 5